

OMALIZUMAB DOSE STEP-UP AND TREATMENT RESPONSE IN PATIENTS WITH CHRONIC IDIOPATHIC/SPONTANEOUS URTICARIA (CIU/CSU): RESULTS FROM THE OPTIMA STUDY

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OPTIMA

INTRODUCTION

- The OPTIMA (efficacy of optimized retreatment and step-up therapy with omalizumab in patients with chronic idiopathic/spontaneous urticaria [CIU/CSU]; NCT02161562) study was designed to address some of the key gaps in the knowledge of optimal CIU/CSU treatment with omalizumab¹
- Omalizumab is approved for the treatment of adults and adolescents (12 years and above) with CIU/CSU who remain symptomatic despite H₁-antihistamine treatment; in Canada the approved dosage is omalizumab 150 mg or 300 mg every 4 weeks²
- The treatment algorithm proposed by international guidelines states that the disease should be treated to complete resolution of symptoms³
- To date, no data evaluating the efficacy of step-up therapy in patients inadequately controlled with omalizumab 150 mg are available

OBJECTIVES

- Four objectives were to be answered in OPTIMA:
 - If a patient's signs and symptoms of CIU/CSU are well controlled with omalizumab and the treatment is stopped, will the patient relapse? How long will it take until relapse?
 - If omalizumab treatment is restarted, will the patient respond to retreatment?
 - If the patient does not sufficiently respond to omalizumab 150 mg, will step-up therapy to 300 mg improve the signs and symptoms of CIU/CSU?
 - If the patient does not respond to 300 mg, will treatment extension improve the signs and symptoms of CIU/CSU?
- This poster will cover the third question

METHODS

- Study design**
- OPTIMA is a Phase 3b, international, multicenter, randomized, open-label, noncomparator study
 - Patients with CIU/CSU who were symptomatic despite H₁-antagonists at approved dose were randomized 4:3 to omalizumab 150 mg or 300 mg for 24 weeks (1st dosing period)
 - Based on weekly Urticaria Activity Score (UAS7), patients entered one of the following phases: treatment withdrawal (if UAS7 ≤6), step-up to 300 mg (if 150 mg initially and UAS7 >6 at Weeks ≥8 to 24), or continued treatment for 12 more weeks (if 300 mg initially and UAS7 >6 at Week 24)
 - Patients who relapsed (UAS7 ≥16) during the treatment withdrawal period were retreated with the same dose (omalizumab 150 mg or 300 mg every 4 weeks) during the 12-week second dosing period

Figure 1. OPTIMA study design. The study includes five phases: screening; initial dosing period; withdrawal; a second dosing period for retreatment, dose step-up, or dose extension based on UAS7 response; and follow-up.

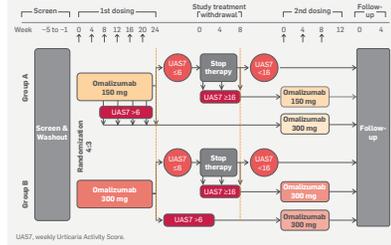
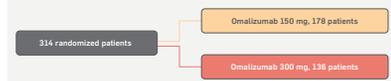


Figure 2. Patient randomization ratio



Inclusion criteria

- Men or women at least 18 years of age
- Diagnosis of CIU/CSU and the presence of symptoms for ≥6 months prior to the screening visit
- Patient must have been on an approved dose of non-sedating H₁-antihistamine for CIU/CSU, and no other concomitant CIU/CSU treatment, for at least the 7 consecutive days immediately prior to the randomization visit and must have documented current use on the day of the randomization visit
- UAS7 score ≥16 (scale 0–42) and itch component of UAS7 ≥8 (scale 0–21) during 7 days prior to randomization

Exclusion criteria

- Patients having a clearly defined underlying etiology for chronic urticaria other than CIU/CSU
- Patients with urticarial vasculitis, urticaria pigmentosa, erythema multiforme, mastocytosis, hereditary or acquired angioedema, lymphoma or leukemia, active atopic dermatitis, bullous pemphigoid, dermatitis herpetiformis, senile pruritus or other skin disease associated with itch that could interfere with study outcomes
- Patients with a history of malignancy of any organ system
- Patients should stay on same approved dose of non-sedating H₁-antihistamine during entire trial duration. No rescue medication was allowed

RESULTS

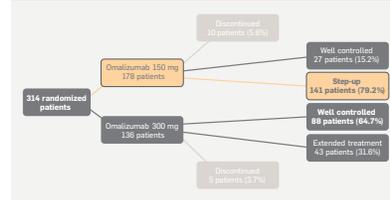
Baseline characteristics

Table 1. Demographics and baseline characteristics

Characteristic	Omalizumab 150 mg (n=178)	Omalizumab 300 mg (n=138)	Overall (N=314)
Age, mean (range), years	46.7 (18–79)	45.8 (20–78)	46.3 (18–79)
Gender, %			
Male	27.0	27.2	27.1
Female	73.0	72.8	72.9
Race, %			
White	76.4	83.1	79.3
Asian	8.4	7.4	8.0
Black	5.6	4.4	5.1
American Indian/Alaska Native	1.1	2.2	1.6
Other	8.4	2.9	6.1
Time to CIU/CSU symptoms, n (%)			
≤1 year	28 (15.7)	22 (16.2)	50 (15.9)
>1–2 years	25 (14.0)	25 (18.4)	50 (15.9)
>2–10 years	84 (47.2)	54 (39.7)	138 (43.9)
>10 years	41 (23.0)	35 (25.7)	76 (24.2)
Baseline UAS7, mean (range)	29.7 (16.0–42.0)	30.0 (16.0–42.0)	29.8 (16.0–42.0)
# Prior medications used for CIU/CSU, mean (range)	1.8 (0.0–12.0)	2.1 (0.0–8.0)	1.9 (0.0–12.0)

CIU/CSU, chronic idiopathic/spontaneous urticaria; UAS7, weekly Urticaria Activity Score.

Figure 3. Patient disposition after first dosing period



- Of those patients with CIU/CSU treated with omalizumab 150 mg, 79.2% (141/178) had to be up-dosed to 300 mg

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FUNDING

This study was funded by Novartis Pharmaceuticals Canada Inc.

DISCLOSURES

Authors declare the following real or perceived conflicts of interest: WL, GS, JH, CWL, KP, and WMY received honoraria as investigators and consultants. BC, AK, PFT, and LR are employees of Novartis Pharmaceuticals.

Figure 4. Proportion of patients stepping up and patient response to omalizumab 150 mg (first dosing) and 300 mg (step-up)



Figure 5. Mean UAS7 during the first dosing period with omalizumab 150 mg

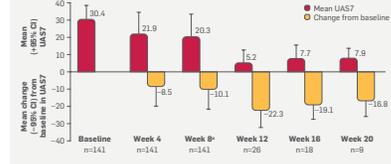
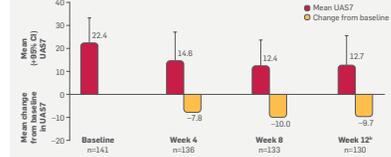


Figure 6. Mean UAS7 during the second dosing period with omalizumab 300 mg



- Step-up treatment to omalizumab 300 mg led to a mean improvement of 9.7 points in UAS7 when compared with the 150 mg dosing period

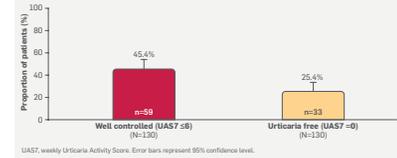
ACKNOWLEDGMENTS

The complete OPTIMA study has been completed at 35 active sites in the following countries: Argentina, Brazil, Canada, Chile, Dominican Republic, Guatemala, Mexico, and Panama. Special thanks to the following individuals for project management and data management: Sorana Socol, PhD, Novartis Healthcare Pvt Ltd, Hyderabad, India for medical writing and editorial support, which was funded by Novartis Pharma AG, Switzerland in accordance with Good Publication Practice (GPP) guidelines; Novartis Pharmaceuticals Canada and Novartis in participating countries. All authors participated in the development of the protocol and approved the final protocol for presentation. Editorial assistance in the development of this poster was provided by Jessica Donaldson-Jones of Fishbeck Communications, Kingston, UK. This poster was previously presented at the 28th European Academy of Dermatology and Venereology Congress, September 13–17, 2017, Geneva, Switzerland.

CONTACT INFORMATION

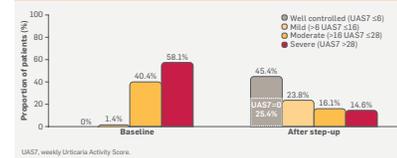
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Figure 5. Proportion of patients who were clinically well controlled (UAS7 ≤6) or urticaria free (UAS7 =0) at the end of step-up phase



- Of those patients who had not been well controlled by omalizumab 150 mg, 45.4% were well controlled by omalizumab 300 mg during the step-up phase, and 25.4% of these were even symptom free

Figure 6. Disease severity distribution at baseline and after step-up



- Step-up treatment improved the disease severity scenario⁴

CONCLUSIONS

- Of the patients with CIU/CSU treated with omalizumab 150 mg, 79.2% had to be up-dosed to 300 mg owing to insufficient symptom control
- The mean UAS7 improvement after the first dosing period and step-up therapy was 8.0 points and 9.7 points, respectively
- From the step-up patient group, 45.4% of patients achieved symptom control during the 3-month treatment with omalizumab 300 mg
- Disease severity distribution was improved after dose step-up, with the majority of patients having well-controlled (45.4%) or mild (23.8%) disease

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